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1 Video parsing, retrieval and browsing: an integrated and content-based solution   ■
       H. J. Zhang, C. Y. Low, S. W. Smoliar, J. H. Wu
       January 1995 **Proceedings of the third ACM international conference on Multimedia**
       Publisher: ACM Press
       Full text available: 📷 htm(51.17 KB)   Additional Information: full citation, references, citings, index terms

       Keywords: database, multimedia, video browsing, video indexing, video parsing, video
       retrieval

2 Multimedia authoring: AVE: automated home video editing   ■
       Xian-Sheng HUA, Lie LU, Hong-Jiang ZHANG
       November 2003 **Proceedings of the eleventh ACM international conference on**
                     Multimedia
       Publisher: ACM Press
       Full text available: 📄 pdf(384.96 KB)   Additional Information: full citation, abstract, references, citings, index
                                                                           terms

       In this paper, we present a system that automates home video editing. This system
       automatically extracts a set of highlight segments from a set of raw home videos and
       aligns them with user supplied incidental music based on the content of the video and
       incidental music. We developed an approach for extracting temporal structure and
       determining the importance of a video segment in order to facilitate the selection of
       highlight segments. Additionally we extract temporal structure, beats and tempos ...

       Keywords: audio segmentation, music analysis, optimization, video content analysis,
       video editing, video segmentation, video skimming

3 A video parsing, indexing and retrieval system   ■
       H. J. Zhang, J. H. Wu, C. Y. Low, S. W. Smoliar
       January 1995 **Proceedings of the third ACM international conference on Multimedia**
       Publisher: ACM Press
       Full text available: 📷 htm(9.01 KB)   Additional Information: full citation, references, citings, index terms

4 Content analysis: A mid-level representation framework for semantic sports video analysis

Ling-Yu Duan, Min Xu, Tat-Seng Chua, Qi Tian, Chang-Sheng Xu
November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**
Publisher: ACM Press

Full text available: 🔲 pdf(1.42 MB)   Additional Information: full citation, abstract, references, citings, index terms

Sports video has been widely studied due to its tremendous commercial potentials. Despite encouraging results from various specific sports games, it is almost impossible to extend a system for a new sports game because they usually employ different sets of low-level features appropriate for the specific games and closely coupled with the use of game specific rules to detect events or highlights. There is a lack of internal representation and structure to be generic and applicable for many differ ...

Keywords: events, mid-level representation, semantics, sports video

5 An intuitive and efficient access interface to real-time incoming video based on automatic indexing

Yukinobu Taniguchi, Akihito Akutsu, Yoshinobu Tonomura, Hiroshi Hamada
January 1995 **Proceedings of the third ACM international conference on Multimedia**
Publisher: ACM Press

Full text available: 🔲 htm(40.62 KB)   Additional Information: full citation, references, citings, index terms

Keywords: browsing, content-based video indexing, grazing, real-time incoming video, user interfaces

6 A hierarchical access control model for video database systems

Elisa Bertino, Jianping Fan, Elena Ferrari, Mohand-Said Hacid, Ahmed K. Elmagarmid, Xingquan Zhu
April 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 2
Publisher: ACM Press

Full text available: 🔲 pdf(6.27 MB)   Additional Information: full citation, abstract, references, index terms

Content-based video database access control is becoming very important, but it depends on the progresses of the following related research issues: (a) efficient video analysis for supporting semantic visual concept representation; (b) effective video database indexing structure; (c) the development of suitable video database models; and (d) the development of access control models tailored to the characteristics of video data. In this paper, we propose a novel approach to support multilevel acce ...

Keywords: Video database models, access control, indexing schemes

7 Internet and WWW-based systems: A web-enabled video indexing system

Jian Zhou, Xiao-Ping Zhang
October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**
Publisher: ACM Press

Full text available: 🔲 pdf(399.60 KB)   Additional Information: full citation, abstract, references, index terms

Video parsing and indexing is an important early stage of content-based video analysis. In this paper, we present a new web-enabled video indexing system that integrates Synchronized Multimedia Integration Language (SMIL) standard. New algorithms are proposed for video temporal segmentation. Sharp transition detection is achieved by an enhanced histogram-based method that is robust to illumination changes. For gradual transition detection, new features are introduced for dissolve detection. T ...

Keywords: SMIL, shot boundary detection, video indexing, video temporal segmentation

8   Vision: a digital video library
    Wei Li, Susan Gauch, John Gauch, Kok Meng Pua
    April 1996 **Proceedings of the first ACM international conference on Digital libraries**
    Publisher: ACM Press
    Full text available: pdf(1.43 MB)   Additional Information: full citation, references, citings, index terms

    Keywords: content-based indexing and retrieving, digital libraries, video and audio processing

9   Automatic audio content analysis
    Silvia Pfeiffer, Stephan Fischer, Wolfgang Effelsberg
    February 1997 **Proceedings of the fourth ACM international conference on Multimedia**
    Publisher: ACM Press
    Full text available: pdf(888.28 KB)   Additional Information: full citation, references, citings, index terms

    Keywords: audio content analysis, audio indexing and retrieval, audio segmentation, audio toolbox, violence detection

10 PanoramaExcerpts: extracting and packing panoramas for video browsing
    Yukinobu Taniguchi, Akihito Akutsu, Yoshinobu Tonomura
    November 1997 **Proceedings of the fifth ACM international conference on Multimedia**
    Publisher: ACM Press
    Full text available: pdf(1.39 MB)   Additional Information: full citation, references, citings, index terms

11 New enhancements to cut, fade, and dissolve detection processes in video segmentation
    Ba Tu Truong, Chitra Dorai, Svetha Venkatesh
    October 2000 **Proceedings of the eighth ACM international conference on Multimedia**
    Publisher: ACM Press
    Full text available: pdf(733.18 KB)   Additional Information: full citation, abstract, references, citings, index terms

    We present improved algorithms for cut, fade, and dissolve detection which are fundamental steps in digital video analysis. In particular, we propose a new adaptive threshold determination method that is shown to reduce artifacts created by noise and motion in scene cut detection. We also describe new two-step algorithms for fade and dissolve detection, and introduce a method for eliminating false positives from a list of detected candidate transitions. In our detailed study of these gradual ...

12 Content-based retrieval for multimedia databases: A motion based scene tree for browsing and retrieval of compressed videos

Haoran Yi, Deepu Rajan, Liang-Tien Chia
November 2004 **Proceedings of the 2nd ACM international workshop on Multimedia databases**
Publisher: ACM Press
Full text available: pdf(770.73 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes a fully automatic content-based approach for browsing and retrieval of MPEG-2 compressed video. The first step of the approach is the detection of shot boundaries based on motion vectors available from the compressed video stream. The next step involves the construction of a scene tree from the shots obtained earlier. The scene tree is shown to capture some semantic information as well as to provide a construct for hierarchical browsing of compressed videos. Finally, we b ...

Keywords: shot boundary detection, video browsing, video indexing, video retrieval, video similarity

13 Image annotation and video summarization: Video summarization based on user log enhanced link analysis

Bin Yu, Wei-Ying Ma, Klara Nahrstedt, Hong-Jiang Zhang
November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(771.50 KB)   Additional Information: full citation, abstract, references, index terms

Efficient video data management calls for intelligent video summarization tools that automatically generate concise video summaries for fast skimming and browsing. Traditional video summarization techniques are based on low-level feature analysis, which generally fails to capture the semantics of video content. Our vision is that users unintentionally embed their understanding of the video content in their interaction with computers. This valuable knowledge, which is difficult for computers to l ...

Keywords: link analysis, log mining, skimming, user behavior, video content analysis, video summarization

14 Detection of video sequences using compact signatures

Justin Zobel, Timothy C. Hoad
January 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(725.90 KB)   Additional Information: full citation, abstract, references, index terms

Digital representations are widely used for audiovisual content, enabling the creation of large online repositories of video, allowing access such as video on demand. However, the ease of copying and distribution of digital video makes piracy a growing concern for content owners. We investigate methods for identifying coderivative video content---that is, video clips that are derived from the same original source. By using dynamic programming to identify regions of similarity in video signatures ...

Keywords: Video similarity detection, dynamic programming, local alignment

15 A video-based rendering acceleration algorithm for interactive walkthroughs

Andrew Wilson, Ming C. Lin, Boon-Lock Yeo, Minerva Yeung, Dinesh Manocha
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**
Publisher: ACM Press

Full text available: 📄 pdf(1.10 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a new approach for faster rendering of large synthetic environments using video-based representations. We decompose the large environment into cells and pre-compute *video based impostors* using MPEG compression to represent sets of objects that are far from each cell. At runtime, we decode the MPEG streams and use rendering algorithms that provide nearly constant-time random access to any frame. The resulting system has been implemented and used for an interactive walkthrough ...

Keywords: MPEG video compression, architectural walkthrough, massive models, video-based impostors, virtual cells

16 Digital video analysis and recognition for content-based access
Hongjiang Zhang, Qi Tian
December 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(203.73 KB)   Additional Information: full citation, references, index terms

17 Multimedia abstractions for a digital video library
Michael G. Christel, David B. Winkler, C. Roy Taylor
July 1997 **Proceedings of the second ACM international conference on Digital libraries**
Publisher: ACM Press
Full text available: 📄 pdf(1.21 MB)   Additional Information: full citation, references, citings, index terms

Keywords: digital video library, multimedia abstration, video abstraction, video browsing

18 Video keyframe extraction and filtering: a keyframe is not a keyframe to everyone
Nevenka Dimitrova, Thomas McGee, Herman Elenbaas
January 1997 **Proceedings of the sixth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: 📄 pdf(1.13 MB)   Additional Information: full citation, references, citings, index terms

Keywords: content-based video retrieval, video content filtering, video content indexing, video cut detection, video segmentation

19 Key to effective video retrieval: effective cataloging and browsing
Dulce Ponceleon, Savitha Srinivasan, Arnon Amir, Dragutin Petkovic, Dan Diklic
September 1998 **Proceedings of the sixth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: 📄 pdf(1.03 MB)   Additional Information: full citation, references, citings, index terms

Keywords: cataloger, digital library creation, multiview storyboard, speech recognition, video annotation, video search and browse, video segmentation

20 <u>Retrieving and visualizing video</u>
Boon-Lock Yeo, Minerva M. Yeung
December 1997 **Communications of the ACM**, Volume 40 Issue 12
Publisher: ACM Press
Full text available: pdf(2.01 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

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